

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/094794 A1

- (51) International Patent Classification⁷: **A61K 9/52**
- (21) International Application Number:
PCT/KR2005/000936
- (22) International Filing Date: 31 March 2005 (31.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10-2004-0022527 1 April 2004 (01.04.2004) KR
- (71) Applicant (for all designated States except US): **HANMI PHARM. CO., LTD.** [KR/KR]; #893-5 Hajeon-ri, Paltan-myeon, Hwaseong-gun, Kyungki-do 445-910 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **WOO, Jong Soo** [KR/KR]; Daewol Maeul 821-105, #914, Jeongja-dong, Jangnan-gu, Suwon-si, Kyungki-do 440-300 (KR). **KIM, Young Hun** [KR/KR]; 304-ho, #525-15 Yuljeon-dong, Jangnan-gu, Suwon-si, Kyungki-do 440-320 (KR).
- (74) Agents: **JANG, Seongku** et al.; 19th Fl., KEC Building, #275-7 Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CONTROLLED RELEASE FORMULATION FOR ORAL ADMINISTRATION OF METFORMIN

(57) Abstract: A controlled release formulation for oral administration of metformin or a pharmaceutically acceptable salt thereof comprising metformin or a pharmaceutically acceptable salt thereof as an active ingredient; a combination of a polyethylene oxide and a natural gum as a carrier for controlled release; and a pharmaceutically acceptable additive.

WO 2005/094794 A1